

Appendix 9.2

Summary of Utililty Reported System Benefit Data

Electricity System Study 6560

Utility Reported Investments in Conservation

	Nominal Dollars per Calendar Year								<i>Budgeted 1998</i>
	1990	1991	1992	1993	1994	1995	1996	1997	
Benton PUD -- Expenditures	284,226	563,774	1,354,717	1,869,744	2,981,307	3,576,885	2,806,265	1,318,218	1,743,179
Reimbursements from BPA	284,226	563,774	1,354,717	1,869,744	2,981,307	3,576,885	2,806,265	1,318,218	1,743,179
Net Investment	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Chelan PUD -- Expenditures	407,673	538,748	673,640	947,350	1,441,078	624,539	742,986	590,147	566,147
Reimbursements from BPA	91,988	106,127	272,091	589,454	217,930		458,000		
Net Investment	\$315,685	\$432,621	\$401,549	\$357,896	\$1,223,148	\$624,539	\$284,986	\$590,147	\$566,147
Clark PUD -- Expenditures	1,303,000	1,377,000	2,175,000	6,152,000	4,324,000	9,397,000	8,258,000	3,895,000	
Reimbursements from BPA	1,229,000	1,377,000	1,984,000	6,601,000	4,324,000	3,730,000	1,750,000	750,000	
Net Investment	\$74,000	\$0	\$191,000	-\$449,000	\$0	\$5,667,000	\$6,508,000	\$3,145,000	\$0
Cowlitz Co. PUD -- Expenditures	481,364	646,600	776,435	1,783,856	1,467,052	1,446,576	1,240,638	1,441,235	1,730,000
Reimbursements from BPA	419,589	533,960	586,704	1,505,427	1,196,305	1,065,250	1,032,430	1,174,459	1,472,801
Net Investment	\$61,775	\$112,640	\$189,731	\$278,429	\$270,747	\$381,326	\$208,208	\$266,776	\$257,199
Franklin Co. PUD -- Expenditures	249,265	368,034	825,849	1,046,523	963,902	776,119	744,225	780,056	96,060
Reimbursements from BPA	195,067	327,574	614,265	958,050	635,150	593,117	649,980	853,848	0
Net Investment	\$54,198	\$40,460	\$211,584	\$88,473	\$328,752	\$183,002	\$94,245	-\$73,792	\$96,060
Grant Co. PUD -- Expenditures	161,192	598,571	855,284	574,759	918,583	782,547	1,015,611	985,797	985,797
Reimbursements from BPA	0	0	0	0	0	0	0	0	0
Net Investment	\$161,192	\$598,571	\$855,284	\$574,759	\$918,583	\$782,547	\$1,015,611	\$985,797	\$985,797
Grays Harbor PUD -- Expenditures	646,243	840,666	1,694,851	2,566,657	2,552,894	1,690,491	2,468,749	1,693,954	1,671,075
Reimbursements from BPA	573,337	917,448	1,763,128	2,736,306	2,809,995	1,675,303	2,659,137	1,549,946	1,671,075
Net Investment	\$72,906	-\$76,782	-\$68,277	-\$169,649	-\$257,101	\$15,188	-\$190,388	\$144,008	\$0
Orcas Pwr & Light -- Expenditures	Unknown	0	188,190	493,719	312,851	297,388	101,335	398,771	398,771
Reimbursements from BPA	0		188,190	493,719	312,851	297,388	101,335	285,845	285,845
Net Investment	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$112,926	\$112,926

Electricity System Study 6560

Utility Reported Investments in Conservation

	Nominal Dollars per Calendar Year								<i>Budgeted 1998</i>
	1990	1991	1992	1993	1994	1995	1996	1997	
PacifiCorp -- Expenditures	NA	NA	NA	5,962,148	4,828,406	3,198,102	1,479,721	450,677	243,694
Reimbursements from BPA	0	0	0	0	0				
Net Investment	\$0	\$0	\$0	\$5,962,148	\$4,828,406	\$3,198,102	\$1,479,721	\$450,677	\$243,694
Parkland -- Expenditures	97,569	109,531	228,129	633,820	342,224	191,775	95,944	77,355	202,000
Reimbursements from BPA	97,153	119,145	278,512	613,006	325,726	136,794	123,573	84,268	193,600
Net Investment	\$416	-\$9,614	-\$50,383	\$20,814	\$16,498	\$54,981	-\$27,629	-\$6,913	\$8,400
Puget Energy -- Expenditures	24,623,000	41,961,000	62,630,000	63,764,000	36,662,000	16,965,000	7,387,000	3,949,000	6,655,000
Reimbursements from BPA	-	1,025,000	5,194,000	1,452,000	899,000	1,325,000	0	0	0
Net Investment	\$24,623,000	\$40,936,000	\$57,436,000	\$62,312,000	\$35,763,000	\$15,640,000	\$7,387,000	\$3,949,000	\$6,655,000
Seattle City Light -- Expenditures	10,206,370	9,478,728	13,991,738	21,285,342	22,939,683	24,828,935	19,758,511	14,838,239	17,740,358
Reimbursements from BPA	2,190,598	3,208,450	5,310,531	11,653,542	12,060,591	13,032,673	9,904,627	5,310,336	5,700,000
Net Investment	\$8,015,772	\$6,270,278	\$8,681,207	\$9,631,800	\$10,879,092	\$11,796,262	\$9,853,884	\$9,527,903	\$12,040,358
SnoPUD -- Expenditures	5,608,987	5,939,725	8,757,886	9,479,815	8,736,280	8,944,648	7,181,725	2,340,886	1,500,000
Reimbursements from BPA	3,726,480	3,750,354	6,786,401	8,432,198	6,789,905	5,028,653	4,200,007	2,562,752	3,256,980
Net Investment	\$1,882,507	\$2,189,371	\$1,971,485	\$1,047,617	\$1,946,375	\$3,915,995	\$2,981,718	-\$221,866	-\$1,756,980
Tacoma Power -- Expenditures	6,751,079	5,894,042	8,935,118	10,619,970	18,459,062	15,540,817	18,071,432	6,426,593	2,826,190
Reimbursements from BPA	4,166,018	3,501,946	5,442,712	8,705,611	9,333,695	6,941,039	10,948,840	3,425,728	1,825,000
Net Investment	\$2,585,061	\$2,392,096	\$3,492,406	\$1,914,359	\$9,125,367	\$8,599,778	\$7,122,592	\$3,000,865	\$1,001,190
Washington Water Pwr -- Expenditures	538,187	2,540,238	7,366,689	19,235,762	13,237,047	3,000,849	2,252,607	3,058,669	2,367,602
Reimbursements from BPA	0	0	0	0	0	0	0	0	0
Net Investment	\$538,187	\$2,540,238	\$7,366,689	\$19,235,762	\$13,237,047	\$3,000,849	\$2,252,607	\$3,058,669	\$2,367,602

Electricity System Study 6560

Utility Reported Data for Top Energy Efficiency Programs for 1990-2000

Program Name	Type of Program	Dates Program Offered	Program Expenditures	Estimated Program Savings (kWh)
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Benton PUD

Top 6 Past Programs by Funding Level

1	Residential Weatherization	Weatherization	1990 to present	\$4,533,695	8,033,301
2	Long Term Super Good Cents	New Home	1992 to present	\$2,396,387	2,238,022
3	Waterwise	Irrigation	1992 to present	\$2,342,908	34,849,897
4	Energy Smart	Commercial	1990 to present	\$1,938,323	12,303,677
5	Heat Pump Program	Res. Heat Pumps	1990 to present	\$1,234,556	5,125,706
6	Industrial	Industrial	1992 to present	\$688,287	32,133,371

Three Most Effective Programs

1	Industrial	Industrial	1992 to present	\$688,287	32,133,371
2	Waterwise	Irrigation	1992 to present	\$2,342,908	34,849,897
3	Energy Smart	Commercial	1990 to present	\$1,938,323	12,303,677

Top Two Future Programs by Funding Level

1	Residential Weatherization	Weatherization	1998 - 2000	\$285,000	160,843
2	Long Term Super Good	New Home	1988 - 2000	\$135,000	144,552
Additional programs: rebates for heat pumps and water heaters; energy smart for small commercial; SGC L-l wx					

Chelan PUD

Top 6 Past Programs by Funding Level

1	Residential Weatherization Loan Program	Retrofit weatherization	1990-Present	\$130,000	750,000
2	Residential New Construction	New construction efficiency enhancements	1990-1994 w/ incentives; 1995 - 1997 no incentives	\$696,845	
3	Commercial New Construction - pre NREC	Incentives for new construction efficiencies	1993-1996	\$427,890	3,812,882
4	Industrial Efficiency Program	Incentives for new construction efficiencies	1992-1996 w/ incentives; 1997 - Present, no incentives	\$437,410	10,547,501
5	Non Residential Code Compliance	new construction efficiencies	1995 - Present	\$30,000	
6	Pressure Diagnostics of Buildings & HVAC Systems	Technical Assistance	1996 - Present	\$74,000	

Three Most Effective Programs

1	Industrial Efficiency Program	Incentives for new construction efficiencies	1992-1996 w/ incentives; 1997 - Present, no incentives	\$437,410	10,547,501
2	Commercial New Construction - pre NREC	Incentives for new construction efficiencies	1993-1996	\$427,890	3,812,882
3	Residential Weatherization Loan Program	Retrofit weatherization	1990-Present	\$130,000	750,000

Top Two Future Programs by Funding Level

1	Residential Weatherization	Weatherization	1998-2000	\$130,000	750,000
2	Commercial/Industrial	Technical Assistance	1998-2000	\$200,000	1,900,000

Clark PUD

Top 6 Past Programs by Funding Level

1	Industrial - Energy Efficient	Facility Improvement
2	Commercial - Investment	Efficiency

Electricity System Study 6560

Utility Reported Data for Top Energy Efficiency Programs for 1990-2000

Program Name	Type of Program	Dates Program Offered	Program Expenditures	Estimated Program Savings (kWh)
3 Residential Weatherization	House Tighten			
4 Heat Pump	Heat Pump Instal			
5 New Construction Grant	Measure Upgrade			
6 Water Heat Rebate	Water Heat Rebate			

Three Most Effective Programs

1 *no detail provided*

Top Two Future Programs by Funding Level

- 1 Residential Loans
- 2 Commercial Loans

Cowlitz Co. PUD

Top 6 Past Programs by Funding Level

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1	Residential Weatherization Retrofit Program	Residential Retrofit	1990 - Present	\$3,036,453	5,002,470
2	Energy Smart Design	Commercial Retrofit	1992 - Present	\$2,883,716	15,364,198
3	Washington State Energy Code Payments & Utility Heat Pump Payments	Energy Code	1992 - 1996	\$1,020,751	1,989,177
4	Energy Efficient Showerhead/ Faucet Aerator Installation Program	Resid/Commercial	1993 - 1994	\$527,000	5,007,560
5	Energy Efficient Water Heater Rebate Program (\$60 & \$40 Rebates)	Residential	1993 - Present	\$495,000	1,253,200
6	Energy Savings Plan (ESP)	Industrial	1992 - Present	\$630,382	9,359,378

Three Most Effective Programs

1	Energy Savings Plan (ESP)	
2	Energy Smart Design (ESD)	
3	Energy Efficient Showerhead/ Faucet Aerator Installation Program	

** This is the sum of the annual savings for the first year only, Annual kWh savings. A measure life would need to be established for each program and the annual kWh savings calculated for each year of the measure life that the program was in effect

Top Two Future Programs by Funding Level

1	Energy Smart Design (ESD)	Comm'l Retrofit	1998 - 2000	\$1,660,000	?
2	Energy Savings Plan	Industrial Retrofit	1998 -1999	\$1,892,000	?

Franklin Co. PUD

Top 6 Past Programs by Funding Level

1	Non-low Income Residential Weatherization	Rebate	1990-present	\$1,929,284	184,808,000
2	Low-income Residential Weatherization	Rebate	1990-present	\$1,068,375	55,016,000
3	Energy Smart Design (commercial)	Rebate	1993-1998	\$858,674	46,669,056

Electricity System Study 6560

Utility Reported Data for Top Energy Efficiency Programs for 1990-2000

	Program Name	Type of Program	Dates Program Offered	Program Expenditures	Estimated Program Savings (kWh)
4	Low Flow Shower Heads and Water Heaters (appliances)	Rebate		\$361,155	34,720,000
5	Energy Savings Plan (Industrial)	Rebate	1992-1997	\$241,640	12,430,596
6	Irrigation Program	Rebate	1990-1996	\$201,181	31,018,640
Three Most Effective Programs					
1	Irrigation Program	Rebate	1990-1996	\$169,060	31,018,640
2	Low Flow Shower Heads and Water Heaters (appliances)	Rebate		\$303,491	34,720,000
3	Non-low Income Residential Weatherization	Rebate	1990-present	\$1,929,284	184,808,000
Top Two Future Programs by Funding Level					
1	Residential Efficiency Improvements	low interest loan	1998-2000	\$1,060,000	19,968,000
2	<i>no further details provided</i>				

Grant Co. PUD

Top 6 Past Programs by Funding Level

1	Industrial	Grant	1990-Present	\$1,013,518	172,203,060
2	Irrigation Hardware	Rebate	1988-Present	\$862,712	86,504,060
3	Commercial	Rebate	1991-Present	\$524,368	99,209,847
4	SGC MSG	Rebate	1991-Present	\$44,000	81,000,000
5	SGC Site Built	Rebate	1987-Present	\$1,932,879	216,102,800
6	Residential Weatherization	Loan	1988-Present	\$107,317	132,169,650
Three Most Effective Programs					
1	Irrigation Management	Contract	1991-Present	\$1,147,123	142,729,831
2	Irrigation Hardware	Rebate	1988-Present	\$862,712	86,504,060
3	Industrial	Grant	1990-Present	\$1,013,518	172,203,060
Top Two Future Programs by Funding Level					
1	Irrigation Hardware	Rebate/Loan	1998-2000	\$300,000	3,000,000
2	Irrigation Management	Contract	1998-2000	\$150,000	6,000,000

Grays Harbor PUD

Top 6 Past Programs by Funding Level

1	Energy Savings Plan	Industrial	92-'98	\$3,198,245	22,114,245
2	Weatherwise	Residential	82-98	\$5,187,014	4,455,755
3	Energy Smart Design	Commercial	92-98	\$2,416,685	10,822,579
4	Efficient Showerhead Program**	Residential	92-98		5,918,800
5	Super Good Cents	Residential	86-98	\$1,124,326	233,976
6	Hot Water Tank Rebate Program	Comm/Res	86-98		520,340
	Heat Pumps	Res.			520,340
Three Most Effective Programs*					
1	Energy Savings Plan	Industrial			
2	Energy Smart Design	Commercial			
3	Efficient Showerhead Program**	Comm/Res			

* BPA has program savings figures for these programs

** Program expenditures are combined

Top Two Future Programs by Funding Level

1	CARES ESE CPS for Comm/Indus. & Institutional	Loan/lease	1998-on	\$4.5 mm est.	Unknown
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Utility Reported Data for Top Energy Efficiency Programs for 1990-2000

	Program Name	Type of Program	Dates Program Offered	Program Expenditures	Estimated Program Savings (kWh)
2	Efficiency Plus for Residential	Loan/lease	1998-on	\$2.5 mm est.	Unknown

Orcas Power & Light

Top 6 Past Programs by Funding Level

1	Residential Weatherization		1980-1996	\$1,512,750	1,782,320
2	Energy Smart Design (Commerical)		1980-1995	\$153,311	351,931
3	Super Good Cents		1980-1991	\$129,172	77,700
4	Long Term Super Good Cents		1992-1994	\$89,000	72,720
5	Water Heater Wrap		1980-1991	\$56,448	352,800
6	Water Heater Rebates		1992-1998	\$39,210	93,350

Three Most Effective Programs

1 *no detail provided*

Top Two Future Programs by Funding Level

1 *no detail provided*

PacifiCorp

Top 6 Past Programs by Funding Level

1	Home Comfort	Res	1993-98	\$6,590,000	600,000,000
2	Super Good Cents	Res	1993-97	\$2,970,000	606,000,000
3	MAP	Res	1993-97	\$2,450,000	610,000,000
4	Showerheads	Res	1993	\$1,703,945	61,818,024
5	Industrial Finanswer	Indus	1993-98	\$1,340,000	260,000,000
6	Commercial Finanswer	Commercial	1993-98	\$1,050,000	35,000,000

Three Most Effective Programs

1	Industrial FinAnswer	same as above
2	MAP	same as above
3	Super Good Cents	same as above

Top Two Future Programs by Funding Level

1	Industrial Finanswer	Indus	1998-2000	Not budgeted (*)	Not easily available
2	Commercial Finanswer	Commercial	1998-2000	Not budgeted (*)	Not easily available

Parkland

Top 6 Past Programs by Funding Level

1	Commercial	LIGHTING	92-PRESENT	\$900,000	2,590,000
2	Residential	WEATHER.	90-PRESENT	\$850,000	2,581,100
3	<i>no further details provided</i>			FIRST YEAR SAVINGS	

Three Most Effective Programs

1	Commercial Lighting
2	Residential Weatherization
3	

Top Two Future Programs by Funding Level

1	Commercial Lighting
2	Residential

Puget Energy

Top 6 Past Programs by Funding Level

1	Residential Retrofit - Space Heat	1979 - present	\$ 62,437,000	101,516,000
2	Residential New Construction (incl. ComfortPlus & code)	1979 - 1996	\$ 26,869,000	92,150,000
3	Residential Water Heating Efficiency	1982 - present	\$ 25,616,000	220,404,000

Electricity System Study 6560

Utility Reported Data for Top Energy Efficiency Programs for 1990-2000

	Program Name	Type of Program	Dates Program Offered	Program Expenditures	Estimated Program Savings (kWh)
4	Residential Lighting and Appliances		1991 - present	\$ 4,918,000	19,885,000
5	Commercial/Industrial Energy Management (incl. Lighting)		1980 - present	\$ 98,951,000	457,099,000
6	Commercial/Industrial New Construction (incl. NREC)		1988 - 1997	\$ 29,283,000	180,165,000

Three Most Effective Programs

1	Residential Water Heating Efficiency		1982 - present	\$ 62,437,000	101,516,000
2	Commercial/Industrial Energy Management (incl. Lighting)		1980 - present	\$ 98,951,000	457,099,000
3	Commercial/Industrial New Construction (incl. NREC)		1988 - 1997	\$ 29,283,000	180,165,000

Top Two Future Programs by Funding Level

1	Residential Information		1996 -		5,920,000
2	CI Energy Management		1996 -		25,344,000

Seattle City Light

Top 6 Past Programs by Funding Level

1	Energy Smart Design Program (active 1998)	comcl/indstl	1989 - 1997	\$49,832,886	3,141,885,000
2	Multifamily Conservation Programs (active 1998)	residential	1986 - 1997	\$38,515,622	1,228,338,000
3	Home Energy Loan / Warm Home Programs (closed)	residential	1981 - 1997	\$15,680,898	307,500,000
4	Low-income Electric Program (active 1998)	residential	1981 - 1997	\$8,228,703	148,710,000
5	Energy Savings Plan Program (active 1998)	industrial	1988 - 1997	\$7,520,717	710,400,000
6	Lighting Design Lab (active 1998)	informational	1988 - 1997	\$4,111,429	0

Three Most Effective Programs

1	Home Water Savers Program (\$ 1.98 / MWh)	residential	1992 - 1995	\$1,367,029	691,395,000
2	Energy Savings Plan Program (\$10.50 / MWh)	industrial	1988 - present	\$49,832,886	3,141,885,000
3	Energy Smart Design Program (\$15.86 / MWh)	commercial	1989 - present	\$7,520,717	710,400,000

NOTES:

- * Savings from 1990-1997 participants.

Top Two Future Programs by Funding Level

1	Energy Smart Design Program	comcl/indstl	1998 - 2000+	\$22,713,800	1,261,440,000
2	Multifamily Conservation Programs	residential	1998 - 2000+	\$10,418,006	478,953,000

SnoPUD

Top 6 Past Programs by Funding Level

1	Residential Loans	Loan	1980-Present	\$0	85,384,621
2	Commercial Conservation	Incentive	1986-1997	\$16,606,126	88,736,716
3	Industrial Conservation	Incentive	1992-1997	\$10,267,958	131,156,416
4	SESCO	Weatherization	1996-1997	\$2,336,360	12,927,440
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Three Most Effective Programs

1	Industrial Conservation	Incentive	1992-1997	\$10,267,958	131,156,416
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Electricity System Study 6560

Utility Reported Data for Top Energy Efficiency Programs for 1990-2000

	Program Name	Type of Program	Dates Program Offered	Program Expenditures	Estimated Program Savings (kWh)
2	Commercial Conservation	Incentive	1986-1997	\$16,606,126	88,736,716
3					

Top Two Future Programs by Funding Level

1	Residential/Commercial	Retrofit	1998	\$3,716,000	n/a
2	Schools Conservation	Retrofit	1998	\$500,000	n/a

Tacoma Power

Top 6 Past Programs by Funding Level

1	Conservation Project Agreement (includes low income)	grant	2/94 to 12/97	\$22,071,389	2,138,206,900
2	Fort Lewis Conservation Project	Performance based	9/92 to 12/98	\$10,001,985	247,630,720
3	Residential Conservation Agreement	Residential, New Construction	3/92 to 9/96	\$5,101,877	not available
4	Energy Smart Design	Commercial	1992 to 2/94	\$9,200,000	600,000,000
5	Energy Savings Plan	Industrial	7/91 to 2/94	\$4,827,922	994,207,530
6	Weatherwise & other BPA weatherizations (Est., w/ Low-Inc.)	Residential, Wx	1/90 to 2/94	\$14,682,500	581,427,000

Three Most Effective Programs

1	Energy Savings Plan	Industrial	7/91 to 2/94	\$4,827,922	994,207,530
2	Conservation Project Agreement	grant	2/94 to 12/97	\$22,071,389	2,138,206,900
3	Energy Smart Design	Commercial	1992 to 2/94	\$9,200,000	600,000,000

Top Two Future Programs by Funding Level

1	Conservation Incentives	Grants	1/97 to 12/98	\$1,588,505	N/A
2	Conservation Loans -	Grants	1/97 to 12/98	off budget	N/A

Washington Water Power

Top 6 Past Programs by Funding Level

	Program		Operation	Budget	lifecycle kWh savings
	Residential Energy Exchanger	fuel switching	5/92 to 12/94	34,366,676	5,410,380,700
	C/I Site-Specific	incentives	1/91 to present	8,796,171	1,235,760,120
	MAP	manufactured homes	x/9x to 2/98	6,276,822	349,350,000
	Limited Income programs		1/90 to present	1,783,183	112,544,055
	Residential New Construction		7/91 to 12/96	1,582,051	164,591,800
	NEEA	market transformation	10/96 to present	629,353	not yet available

Top Two Future Programs by Funding Level

			1997 (annual kWh's / lifecycle kWh's)	1998 (annual kWh's / lifecycle kWh's)
C/I Site Specific	1,060,000		10,428,780 / 208,575,600	10,428,780 / 208,575,600
Limited Income	590,000		2,027,940 / 50,698,500	2,027,940 / 50,698,500

Electricity System Study 6560

Utility Reported Data for Non-Hydro Renewable Power

1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
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PacifiCorp

Non-Hydro Renewable Projects

Project Name	Project Type	MWh Produced or Purchased								Amount Budgeted in Each Year		
Blundell	Geothermal		186,241	186,369	148,148	194,804	130,742	191,912	168,518	150,000	not budgeted	not budgeted
Foot Creek	Wind								-	10,000	50,000	not budgeted

Seattle City Light

Non-Hydro Renewable Projects

Project Name	Project Type	MWh Produced or Purchased								Amount Budgeted in Each Year		
West Point Sewage Treatment Plant (methane gas)	co-generation	9,852	7,306	8,706	8,459	7,948	9,168	8,829	8,296	10,513	10,512	10,541

SnoPUD

Non-Hydro Renewable Projects

Project Name	Project Type	MWh Produced or Purchased							Amount Budgeted in Each Year			
Everett Cogeneration P	Biomass/Steam						24,186	272,678	301,400	325,000		

Washington Water Power

Non-Hydro Renewable Projects

* Amounts in italics pro-rate utility-wide data to reflect the proportion available to Washington consumers, using a utility supplied ration)

Project Name	Project Type	MWh Produced or Purchased							Amount Budgeted in Each Year		
Minnesota Methane	Landfill methane	-	-	-	-	-	-	-	2,700	7,200	7,200
Wood Power, Inc.	cogen-wood	40,438	39,632	40,261	36,772	36,116	37,147	34,114	-	-	-
Rayonier	cogen-wood	-	-	-	-	-	-	-	15,319	5,801	-
Eduard Ribic	wind	-	-	-	-	-	3	1	-	1	1
Kettle Falls	wood	333,775	264,408	291,630	307,968	329,841	200,237	284,098	279,887	304,146	369,139
	WA total	249,974	203,099	221,703	230,286	244,459	158,575	212,566	197,198	208,849	251,395

NOTE: DOES NOT INCLUDE WIND RESOURCE ESTIMATIONS FOR 1998-2000 UNDER THE MOPS II PROGRAM

Q11-If your non-hydro renewable resource budgets and programs have changed since 1995 (as reported in Q6), please describe what factors or considerations have influenced these changes.

Methane gas project came on-line in May 98

Bought out the Wood Power, Inc. project in 1997

Rayonier facility project burned down 7/97. Assumed project would not come back on-line.

Note: Only utilities reporting activity are shown.

Electricity System Study 6560

Summary of Utility Reported Data for Low-Income Energy Services

	Nominal Dollars per Calendar Year								Budgeted
	1990	1991	1992	1993	1994	1995	1996	1997	1998
Benton PUD -- Low Income Programs									
Low Income Weatherization Expenditures	53,958	79,129	313,115	136,869	52,162	97,867	114,908	53,270	90,000
Reimbursements from BPA	53,958	79,129	313,115	136,869	52,162	97,867	114,908	53,270	30,000
Net Weatherization	0	0	0	0	0	0	0	0	60,000
Bill Discounts and Direct Assistance	0	0	0	0	0	0	0	0	0
Chelan PUD -- Low Income Programs									
Low Income Weatherization Expenditures	26,968	114,371	102,938	102,892	150,125	50,000	60,000	60,000	65,000
Reimbursements from BPA	26,968	114,371	102,938	102,892	100,125				
Net Weatherization	0	0	0	0	50,000	50,000	60,000	60,000	65,000
Bill Discounts and Direct Assistance	0	0	0	0	21,178	70,942	80,280	89,191	90,000
Clark PUD -- Low Income Programs	none reported								
Low Income Weatherization Expenditures									
Reimbursements from BPA									
Net Weatherization	0	0	0	0	0	0	0	0	0
Bill Discounts and Direct Assistance	351,629	354,675	318,712	588,056	698,944	639,744	1,036,722	999,273	
Cowlitz Co. PUD -- Low Income Programs *	* (Specific data for expenditures were not reported; amounts reported as BPA reimbursements were assumed as a proxy)								
Low Income Weatherization Expenditures	44,142	37,689	44,854	28,241	61,933	47,306	16,979	22,845	25,000
Reimbursements from BPA	44,142	37,689	44,854	28,241	61,933	47,306	16,979	22,845	25,000
Net Weatherization	0	0	0	0	0	0	0	0	0
Bill Discounts and Direct Assistance	0	0	0	0	0	0	0	0	0
Franklin Co. PUD -- Low Income Programs									
Low Income Weatherization Expenditures	49,225	97,277	331,170	650,415	253,464	124,937	86,516	39,001	20,000
Reimbursements from BPA	38,522	86,583	246,324	310,854	100,677	54,119	40,334	20,381	-
Net Weatherization	10,703	10,694	84,846	339,560	152,787	70,817	46,182	18,620	20,000
Bill Discounts and Direct Assistance	none reported								
Grant Co. PUD -- Low Income Programs									
Low Income Weatherization Expenditures	3,600	25,000	50,000	22,000	60,000	20,000	10,000	20,000	65,000
Reimbursements from BPA	0	25,000	50,000	22,000	60,000	20,000	10,000	20,000	45,000
Net Weatherization	3,600	0	0	0	0	0	0	0	20,000
Bill Discounts and Direct Assistance	0	0	0	0	0	0	0	0	0
Grays Harbor PUD - Low Income Programs									
Low Income Weatherization Expenditures*	235,628	404,310	437,960	412,629	363,484	273,681	217,909	137,949	50,000
Reimbursements from BPA	235,628	404,310	437,960	412,629	363,484	273,681	217,909	137,949	0
Net Weatherization	0	0	0	0	0	0	0	0	50,000

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Summary of Utility Reported Data for Low-Income Energy Services

	Nominal Dollars per Calendar Year								Budgeted
	1990	1991	1992	1993	1994	1995	1996	1997	1998
Bill Discounts and Direct Assistance	not available	not available	not available	142,128	144,251	138,846	161,041	156,484	160,000
Orcas Power -- Low Income Programs									
Low Income Weatherization Expenditures	Unknown	14,006	31,711	49,252	15,677	0	0	0	0
Reimbursements from BPA	Unknown	14,006	31,711	49,252	15,677	0	0	0	0
Net Weatherization		0	0	0	0	0	0	0	0
Bill Discounts and Direct Assistance	Unknown	0	0	0	0	0	0	0	0
PacifiCorp - Low Income Programs									
Low Income Weatherization Expenditures				970,792	841,443	678,746	720,507	586,567	350,000
Reimbursements from BPA	0	0	0	0	0	0	0	0	0
Net Weatherization	0	0	0	970,792	841,443	678,746	720,507	586,567	350,000
Bill Discounts and Direct Assistance	23,208	23,208	23,208	23,208	23,208	23,208	23,208	23,208	23,208
Parkland -- Low Income Programs									
Low Income Weatherization Expenditures	16,817	20,342	65,705	104,100	2,426	1,000	0	2,783	
Reimbursements from BPA	16,817	20,342	65,705	104,100	2,426	1,000	0	2,783	
Net Weatherization	0	0	0	0	0	0	0	0	0
Bill Discounts and Direct Assistance	0	0	0	0	0	0	0	0	0
Puget Energy -- Low Income Programs									
Low Income Weatherization Expenditures	1,732,000	1,519,000	1,156,000	1,877,000	886,000	546,000	698,000	511,000	1,892,235
Reimbursements from BPA									
Net Weatherization	1,732,000	1,519,000	1,156,000	1,877,000	886,000	546,000	698,000	511,000	1,892,235
Bill Discounts and Direct Assistance	0	0	0	0	0	0	0	0	0
Seattle City Light -- Low Income Programs									
Low Income Weatherization Expenditures (conservation)	3,115,347	3,321,306	3,330,139	3,088,972	3,614,652	3,726,790	1,786,295	2,137,019	2,144,574
Reimbursements from Bonneville (conservation)	433,353	668,645	709,487	1,018,619	1,766,165	545,490	427,887	167,540	0
Net Weatherization	2,681,994	2,652,661	2,620,652	2,070,353	1,848,487	3,181,300	1,358,408	1,969,479	2,144,574
Bill Discounts and Direct Assistance	3,235,694	3,341,513	3,606,858	4,005,166	4,265,326	4,238,046	4,574,829	4,182,858	4,555,894
SnoPUD -- Low Income Programs									
Low Income Weatherization Expenditures	266,038	269,431	275,696	265,252	267,867	267,943	274,384	349,943	450,000
Reimbursements from BPA	0	0	0	0	0	0	0	0	0
Net Weatherization	266,038	269,431	275,696	265,252	267,867	267,943	274,384	349,943	450,000
Bill Discounts and Direct Assistance	476,263	428,586	553,496	637,333	657,701	653,288	1,500,852	1,051,081	2,800,000
Tacoma Power -- Low Income Programs									
Low Income Weatherization Expenditures	976,202	866,318	1,060,204	2,083,392	630,720	2,047,778	364,915	591,145	900,000
Reimbursements from BPA	976,202	866,318	1,060,204	2,083,392	630,720	1,156,482	304,096	0	0
Net Weatherization	0	0	0	0	0	891,296	60,819	591,145	900,000
Bill Discounts and Direct Assistance	1,251,317	1,361,273	1,361,309	1,378,451	1,367,968	1,423,367	1,438,596	1,588,748	1,500,000
WWP -- Low Income Programs *									

* (These amounts pro-rate utility-wide data to reflect the proportion spent in Washington, using a utility supplied ration)

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Summary of Utility Reported Data for Low-Income Energy Services

	Nominal Dollars per Calendar Year								Budgeted
	1990	1991	1992	1993	1994	1995	1996	1997	1998
Weatherization Actuals	449,417	363,939	425,426	670,291	666,449	80,528	149,386	28,704	65,536
BPA Funding	0	0	0	0	0	0	0	0	0
Net Weatherization	449,417	363,939	425,426	670,291	666,449	80,528	149,386	28,704	65,536
Bill Discounts and Direct Assistance	0	0	0	0	0	0	0	0	0